




INFORMATION DISCLOSURE STATEMENT BY APPLICANT(S) Sheet 1 of 8	Submitter Form 1449A/PTO		Complete if Known	
	Application Number		10/621,119	
	Filing Date		July 16, 2003	
	First Named Inventor		QUAID, et al.	
	Art Unit		3768	
		Examiner Name		W. JUNG
		Attorney Docket No.		MAKO 2 00027-3

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Examiner Initials*	Cite No.	Document No. Number-Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
/EC/	AA	US-2006/0109266A1	05/25/2006	Itkowitz, et al.
	AB	US-7,039,866 B1	05/02/2006	Rosenberg, et al.
	AC	US-2006/0058616A1	03/16/2006	Marquart, et al.
	AD	US-7,001,346 B2	02/21/2006	White
	AE	US-2006/0033707A1	02/16/2006	Rodomista, et al.
	AF	US-6,985,133 B1	01/10/2006	Rodomista, et al.
	AG	US-2005/0222830A1	10/06/2005	Massie, et al.
	AH	US-2005/0203384A1	09/15/2005	Sati, et al.
	AI	US-2005/0197800A1	09/08/2005	Goodwin, et al.
	AJ	US-6,920,347 B2	07/19/2005	Simon, et al.
	AK	US-2005/0113677A1	05/26/2005	Davies, et al.
	AL	US-2005/0107801A1	05/19/2005	Davies, et al.

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		Country Code-Number Kind Code (if known)			
/EC/	AM	WO 2004/069036 A2	08/19/2004	Z-KAT, INC.	[]
↓	AN	WO 2004/969040 A2	08/19/2004	Z-KAT, INC.	[]
	AO	WO 2004/069041 A2	08/19/2004	Z-KAT, INC.	[]
	AP	WO 2004/070573 A2	08/19/2004	Z-KAT, INC.	[]

OTHER - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume/issue number(s), publisher, city and/or country where published		
/EC/ 	AQ	Quaid, et al. "The Use of Haptic Information Displays For Assisting in the Execution of Image-Guided Surgery Plans", Syllabus of the Computer Assisted Orthopaedic Surgery Meeting, (CAOS/USA 2001), July 2001, Pittsburgh, PA pp. 339-340		
	AR	Quaid, et al., "Haptic Information Displays For Computer-Assisted Surgery", Proceedings of the 2002 IEEE International Conference on Robotics & Automation, Washington, DC May 2002, pp 2092-2097		
	AS	Abovitz, et al., "The Future Use of Networked Haptic Learning Information Systems in Computer-Assisted Surgery", CAOS 2001, July 6-8, 2001, Pittsburgh, PA pp 337-338		
	AT	Abovitz, "Human-Interactive Medical Robotics", CAOS 2001, July 6-8, 2001, Pittsburgh, PA pp 81-82		
	AU	Abovitz, "Human-Interactive Medical Robotics", CAOS 2000, June 15-17 2000, Pittsburgh, PA pp 71-72		

Examiner Signature	/Elmer Chao/	Date Considered	08/23/2007
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		Examiner Name	W. JUNG	
Sheet 2 of 8		Attorney Docket No.	MAKO 2 00027-3	

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/EC/	BA	US-2005/0093821A1	05/05/2005	Massie, et al.
	BB	US-6,853,965 B2	02/08/2005	Massie, et al.
	BC	US-2005/0001831A1	01/06/2005	Shih, et al.
	BD	US-6,831,640 B2	12/14/2004	Shih, et al.
	BE	US-2004/0128026A1	07/01/2004	Harris, et al.
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	BG	US-6,757,582 B2	06/29/2004	Brisson, et al.
	BH	US-2004/0115606A1	06/17/2004	Davies
	BI	US-2004/0106916A1	06/03/2004	Quaid, et al.
	BJ	US-2004/0102866A1	05/27/2004	Harris, et al.
	BK	US-6,711,432 B1	03/23/2004	Krause, et al.
	BL	US-6,701,174 B1	03/02/2004	Krause, et al.

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/EC/	BM	WO 2004/070580 A2	08/19/2004	Z-KAT, INC.	<input type="checkbox"/>
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/EC/	BQ	Abovitz, "Digital Surgery: The Future of Medicine and Human-Robot Symbiotic Interaction", Industrial Robot: An International Journal, V. 28, N. 5, Oct 2001, pp. 401-406	<input type="checkbox"/>
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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT(S)		Complete if Known Application Number: 10/621,119 Filing Date: July 16, 2003 First Named Inventor: QUAID, et al. Art Unit: 3768 Examiner Name: W. JUNG Attorney Docket No.: MAKO 2 00027-3			
Sheet 4 of 8					
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/EC/	DA	US-6,421,048 B1	07/16/2002	Shih, et al.	
	DB	US-6,417,638 B1	07/09/2002	Guy, et al.	
	DC	US-6,405,158 B1	06/11/2002	Massie, et al.	
	DD	US-6,405,072 B1	06/11/2002	Cosman	
	DE	US-6,393,340 B2	05/21/2002	Funda, et al.	
	DF	US-6,385,509 B2	05/07/2002	Das, et al.	
	DG	US-6,377,839 B1	04/23/2002	Kalfas, et al.	
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	DJ	US-6,233,504 B1	05/15/2001	Das, et al.	
	DK	US-6,231,526 B1	05/15/2001	Taylor, et al.	
	DL	US-6,226,566 B1	05/01/2001	Funda, et al.	
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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT(S)	Complete if Known <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; border-bottom: 1px solid black;">Application Number</td> <td style="width: 50%; border-bottom: 1px solid black;">10/621,119</td> </tr> <tr> <td style="border-bottom: 1px solid black;">Filing Date</td> <td style="border-bottom: 1px solid black;">July 16, 2003</td> </tr> <tr> <td style="border-bottom: 1px solid black;">First Named Inventor</td> <td style="border-bottom: 1px solid black;">QUAID, et al.</td> </tr> <tr> <td style="border-bottom: 1px solid black;">Art Unit</td> <td style="border-bottom: 1px solid black;">3768</td> </tr> <tr> <td style="border-bottom: 1px solid black;">Examiner Name</td> <td style="border-bottom: 1px solid black;">W. JUNG</td> </tr> <tr> <td style="border-bottom: 1px solid black;">Attorney Docket No.</td> <td style="border-bottom: 1px solid black;">MAKO 2 00027-3</td> </tr> </table>	Application Number	10/621,119	Filing Date	July 16, 2003	First Named Inventor	QUAID, et al.	Art Unit	3768	Examiner Name	W. JUNG	Attorney Docket No.	MAKO 2 00027-3
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Examiner Name	W. JUNG												
Attorney Docket No.	MAKO 2 00027-3												
Sheet 5 of 8													

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/EC/ 	EA	US-6,205,411 B1	03/20/2001	DiGioia, III, et al.
	EB	US-6,111,577	08/29/2000	Zilles, et al.
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	ED	US-6,084,587	07/04/2000	Tarr, et al.
	EE	US-6,033,415	03/07/2000	Mittelstadt, et al.
	EF	US-6,006,126	12/21/1999	Cosman
	EG	US-6,002,859	12/14/1999	DiGioia, III, et al.
	EH	US-5,987,960	11/23/1999	Messner, et al.
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	EJ	US-5,980,535	11/09/1999	Barnett, et al.
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	EN			
	EO			
	EP			

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT(S) Sheet 6 of 8		Complete if Known Application Number: 10/621,119 Filing Date: July 16, 2003 First Named Inventor: QUAID, et al. Art Unit: 3768 Examiner Name: W. JUNG Attorney Docket No.: MAKO 2 00027-3			
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Examiner Initials*	Cite No.	Document No. Number-Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	
/EC/	FA	US-5,898,599	04/27/1999	Massie, et al.	
	FB	US-5,887,121	03/23/1999	Funda, et al.	
	FC	US-5,871,018	02/16/1999	Delp, et al.	
	FD	US-5,831,408	11/03/1998	Jacobus, et al.	
	FE	US-5,806,518	09/15/1998	Mittelstadt	
	FF	US-5,799,055	08/25/1998	Peshkin, et al.	
	FG	US-5,695,500	12/09/1997	Taylor, et al.	
	FH	US-5,694,013	12/02/1997	Stewart, et al.	
	FI	US-5,682,886	11/04/1997	Delp, et al.	
	FJ	US-5,630,431	05/20/1997	Taylor, et al.	
	FK	US-5,625,576	04/29/1997	Massie, et al.	
	FL	US-5,587,937	12/24/1996	Massie, et al.	
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Examiner Initials*	Cite No.	Document No. Number-Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	
/EC/	GA	US-5,572,999	11/12/1996	Funda, et al.	
↓	GB	US-5,445,166	08/29/1995	Taylor	
↓	GC	US-5,408,409	04/18/1995	Glassman, et al.	
↓	GD	US-5,388,480	02/14/1995	Townsend	
↓	GE	US-5,343,385	08/30/1994	Joskowicz, et al.	
↓	GF	US-5,299,288	03/29/1994	Glassman, et al.	
↓	GG	US-5,236,432	08/17/1993	Matsen, III, et al.	
↓	GH	US-5,230,338	07/27/1993	Allen, et al.	
↓	GI	US-5,207,114	05/04/1993	Salisbury, Jr., et al.	
↓	GJ	US-5,154,717	10/13/1992	Matsen, III, et al.	
↓	GK	US-5,142,930	09/01/1992	Allen, et al.	
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/EC/	HB	US-4,979,949	12/25/1990	Matsen, III, et al.
/EC/	HC	US-4,903,536	02/27/1990	Salisbury, Jr., et al.
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/EC/	AB	US 6,642,686 B1	11/04/2003	Ruch
/EC/	AC	US 5,792,147	08/11/1998	Evans, et al.
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/EC/	AN	Rosenberg, "Virtual Fixtures: Perceptual Overlays Enhance Operator Performance in Telepresence Tasks", Ph.D. Thesis, Stanford University, August 1994	<input type="checkbox"/>
/EC/	AO	Park, et al., "Virtual Fixtures for Robotic Cardiac Surgery", Proc. Medical Image Computing and Computer-Assisted Intervention, Utrecht, NL, Oct. 2001	<input type="checkbox"/>
/EC/	AP	Bettini, et al., "Vision Assisted Control For Manipulation Using Virtual Fixtures: Experiments at Macro and Micro Scales", Proc. 2002 IEEE Int'l. Conf. on Robotics and Automation, Washington, DC, May 2002	<input type="checkbox"/>
/EC/	AQ	Davies, et al. "The Use of Force Control in Robot Assisted Kneww Surgery", Proc. of the First Annual Symposium on Medical Robotics and Computer Assisted Surgery, V. 2, Pittsburgh, PA, pp. 258-262, Sept. 1994	<input type="checkbox"/>
/EC/	AR	Cobb, et al., "A Robotic System for TKR Surgery", Third Annual N.American Program on Computer Assisted Orthopaedic Surgery, Pittsburgh, PA, pp. 71-74, June 1999	<input type="checkbox"/>
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/EC/	BN	Townsend, et al., "Teleoperator Slave - WAM Design Methodology", Industrial Robot, V. 26, No. 3, pp. 167-177, 1999	<input type="checkbox"/>	
/EC/	BO	Leeser, et al., "Computer-Assisted Teach and Play: Novel User-Friendly Robot Teach Mode Using Gravity Compensation and Backdrivability", Proc. of Robotic International/SME Fifth World Conference on Robotics Research, Cambridge MA, Sept. 1994	<input type="checkbox"/>	
/EC/	BP	Goswami, et al., "Identifying Robot Parameters Using Partial Pose Information", IEEE Control Systems Magazine, October 1993	<input type="checkbox"/>	
/EC/	BQ	Meggiolaro, et al., "Manipulator Calibration Using a Single Endpoint Contact Constraint", 26 th ASME Biennial Mechanisms Conference, Baltimore, MD 2000	<input type="checkbox"/>	
/EC/	BR	Bennett, et al., "Autonomous Calibration of Single-Loop Kinematic Chains Formed By Manipulators With Passive End-Point Constraints", IEEE Transactions on Robotics and Automation, V. 7, pp 597-606, 1991	<input type="checkbox"/>	
/EC/	BS	Roche, "Changing the Way Surgeons Plan and Execute Minimally Invasive Unicompartmental Knee Surgery", Orthopaedic Product News, pp. 16-18, July/August 2006	<input type="checkbox"/>	

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